Title (en)

GAMUT CORRECTION WITH COLOR SEPARATION AND METHODS AND APPARATUSES FOR PERFORMING SAME

Title (de)

FARBTONKORREKTUR MIT FARBTRENNUNG SOWIE VERFAHREN UND APPARATE ZUR DURCHFÜHRUNG

Title (fr)

CORRECTION DE GAMME COMPORTANT UNE SEPARATION DE COULEURS, ET PROCEDES ET APPAREILS PERMETTANT DE LA METTRE EN OEUVRE

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- US 87881197 A 19970619

Abstract (en)

[origin: WO9858493A1] Methods and apparatuses for correcting gamut limitations of a color device. A method includes creating a predefined color space for use in gamut correction due to the gamut limitations of the color device, such as a color printer, and producing a set of color data values using the predefined color space. The set of color data values is for use in converting from a first color space (e.g., RGB) to a second color space (e.g., CMYK). A method in another embodiment includes creating a first color separation table, creating a predefined color space, creating a second color separation table for converting values of colors in the predefined color space to values in a colorant space, and creating a composite color separation lookup table by using a plurality of first values from the first color separation table and using a plurality of second values from the second color separation table. The predefined color space is typically based upon a set of redefined chromaticities which are used in a transformation function. Various apparatuses of the invention, including data structures in computer readable media (e.g., LUTs) and hardware and/or software combinations, are described. Methods of using these apparatuses are also described.

IPC 8 full level

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